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Electronics Production and Development Facilities in the Kharkov Area, USSR (S)

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ELECTRONICS PRODUCTION AND DEVELOPMENT FACILITIES IN THE KHARKOV AREA, USSR (S)

1. (S/WN) Through the correlation of satellite imagery—acquired from June 1978 through April 1982—[redacted] nine electronics production, development, test, and support facilities have been identified in the Kharkov area in the USSR. This report contains a location map (Figure 1) and imagery of the Kharkov area on which these facilities are outlined (Figure 2). Imagery of two of the production facilities and the one test area is also included.

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2. (S/WN) The electronics facilities discussed in this report can be divided into four functional groups: the development and production of aviation electronics and instruments; the design and production of missile guidance computers; the development, production, and testing of mobile radio and direction-finding (DF) equipment; and the production of small components.

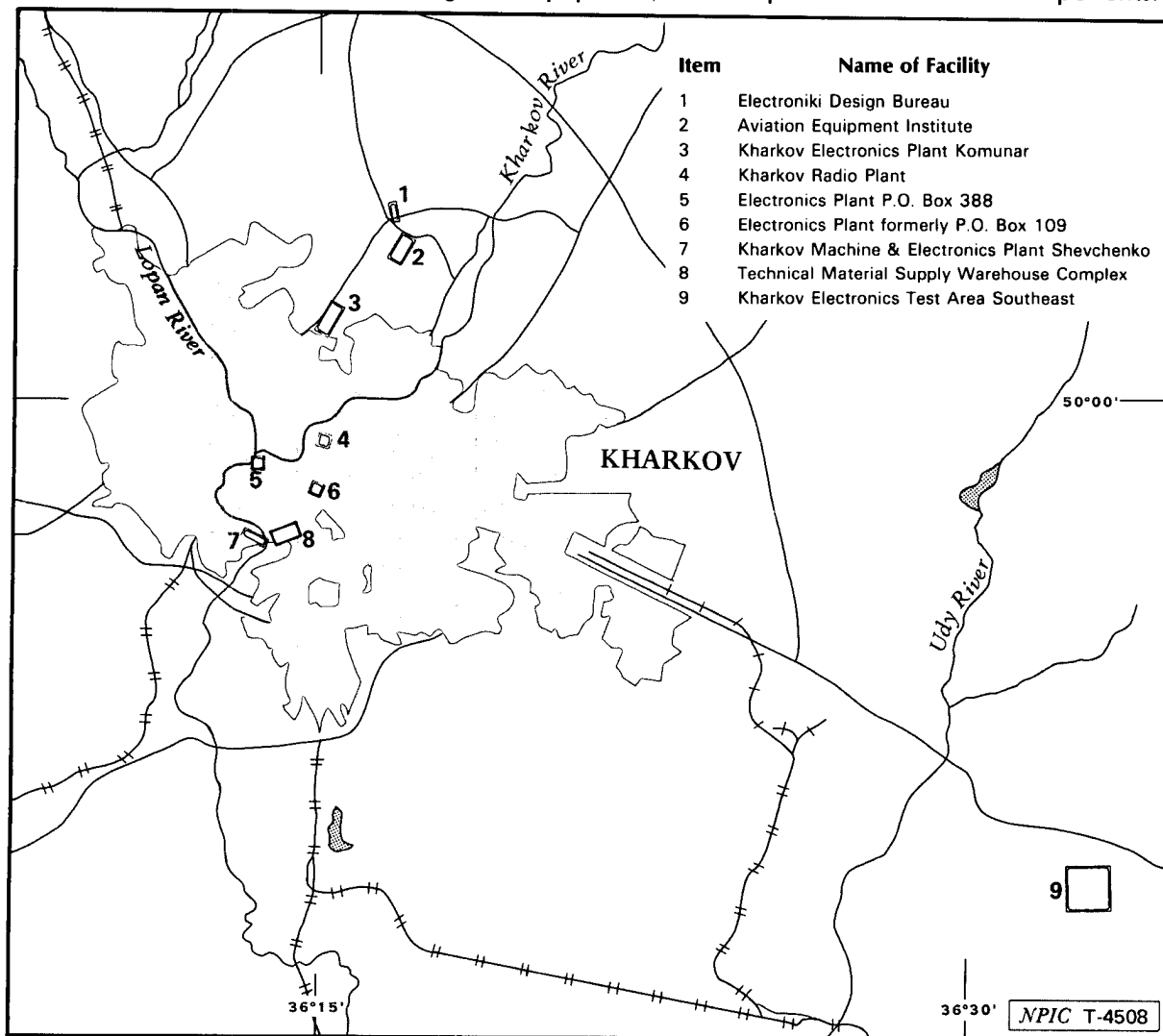


FIGURE 1. LOCATIONS OF ELECTRONICS DEVELOPMENT, PRODUCTION, TEST, AND SUPPORT FACILITIES IN THE KHARKOV AREA, USSR

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3. (S/WN) Two plants and a design bureau are engaged in aviation electronics and instrument development and production in the northern section of Kharkov, near Kharkov North Airfield [REDACTED] Kharkov Electronics Plant Komunar [REDACTED] in a separately secured southern portion of Kharkov Airframe Plant 135 [REDACTED] produces electronics components for aircraft and missiles. The plant consists of a large fabrication building, five component-assembly buildings, an administration building, and support buildings. The Aviation Equipment Institute, north of Kharkov North Airfield, contains ten component assembly buildings dispersed in a wooded area. It produces civilian cameras and advanced-technology scientific instruments for the aviation industry. Immediately north of this facility is the Elektroniki Design Bureau, which is collocated with and part of the Kharkov Aviation Institute [REDACTED] It cannot be determined from imagery which part of the Kharkov Aviation Institute is the Elektroniki Design Bureau. The bureau designs circuits and develops manufacturing techniques for electronics components used in missile and aircraft systems.

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4. (S/WN) The design and production of missile-guidance computers are performed at Kharkov Machine and Electronics Plant Shevchenko [REDACTED] which is in central Kharkov at a bend in the Lopan River.¹ The plant, which is subordinate to the Ministry for General Machine Building and collocated with a design bureau, consists of seven assembly buildings and three administration/engineering buildings (Figure 3). It produces both onboard and ground-based missile-guidance computers. The computers are sent to a missile production plant in Dnepropetrovsk.

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5. (S/WN) The development and production of mobile radio and DF equipment are performed at Kharkov Radio Plant [REDACTED] in north-central Kharkov.² Limited numbers of ZIL-131, ZIL-157, GAZ-66, and URAL-375 trucks; GAZ-69 and UAZ-469 light utility vehicles; and Volga sedans have been observed in the plant, which is a member of the Proton association.² The plant consists of three assembly buildings, two component-assembly buildings, and an administration/engineering building (Figure 4). It produces several types of radio receivers, electronics intelligence DF systems, and a signal intelligence receiver.³ This equipment is used by the Soviet ground forces, the navy, the merchant marine, and the KGB. HIGH RING, QUAD LOOP, CROSS LOOP, and PARK LAMP antennas have been associated with this equipment. Some of this equipment has been mounted on or in trucks, light utility vehicles, passenger sedans, helicopters, warships, and merchant ships.²

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6. (S/WN) Kharkov Electronics Test Area Southeast [REDACTED] (Figure 5) is approximately 13.5 nautical miles southeast of the center of Kharkov. It consists of two circular DF equipment test areas, four electronics test positions, and several support structures. The facility is the test and checkout area for the Kharkov Radio Plant.⁴ All DF equipment and radios produced at the plant undergo acceptance tests at this facility. The interpretability of available imagery precluded determining which systems were in the test area.

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7. (S/WN) Two known small component-production plants and one warehouse complex in the Kharkov area support all of the electronics facilities.² One of the plants, formerly designated P.O. Box 109,² produces small electronics parts including cannon plugs. It consists of six small component-assembly buildings. The second plant, designated P.O. Box 388,² produces electrolytic capacitors. It consists of four small component-assembly buildings. Both plants supply parts to the other electronics plants in the Kharkov area. Sheet metal and tubing supplies for all of these plants are provided by a technical material supply warehouse complex across the Lopan River from Kharkov Machine and Electronics Plant Shevchenko. The complex consists of at least 20 warehouses and an extensive open storage area.

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REFERENCES

IMAGERY

(S/WN) Selected satellite imagery obtained from June 1978 through April 1982 was used in the preparation of this report.

MAP OR CHART

DMA. US Air Target Chart, Series 200, Sheet 0234-12, scale 1:200,000 (UNCLASSIFIED)

DOCUMENTS

1. CIA. FIR-K-311/01202-78, *Manufacture of Integrated Circuits at the Shevchenko Instrument Plant in Kharkov*, Oct 78 (CONFIDENTIAL [redacted])
2. CIA. FIR-K-311/01209-78, *Organizational Structure of the Kharkov Radio Plant in Kharkov, Ukrainian SSR*, Oct 78 (CONFIDENTIAL [redacted])
3. CIA. FIR-K-311/01197-78, *Identification of Items Manufactured at the Kharkov Radio Plant of the Proton Association in Kharkov*, Oct 78 (CONFIDENTIAL [redacted])
4. CIA. FIR-K-311/01208-78, *Radio Receiver and DF Equipment Test Facility of the Kharkov Radio Plant*, Oct 78 (CONFIDENTIAL [redacted])

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(S) Comments and queries regarding this report are welcome. They may be directed to [redacted]
[redacted] Warsaw Pact Forces Division, Imagery Exploitation Group, NPIC, [redacted]

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